P.W

enn. Gas Trans. Co.1Schreiber USA E/4 SW/4 Sec. 35-T39N-R13W //4

Come approved property of the same

and the control of th	= 0
	County Mohave
	Area Ariz, Strip
Lease	No. Federal
Well Name <u>Tennessee Gas , Transmission Company #1 US</u>	A-Schreiber
Location SE SW Sec 35 Twp 39N Range 13W Foot Spud Complete Elev 5404Gr 5416 KB Date 4-25-60 Abandon 5- Contractor: Well completions, Inc.; Denver, Cole	Total -22-60 Depth <u>4015</u> Approx.
<u>13 3/8 128 160sx</u>	Drilled by Rotary X Cable Tool
	@ 2720'
REMARKS: No cores: No DST's; 0-3083 Dril 3083-4015 Drilled w/air; water & detergent Because of bridge in hole, unable to log be	injected.
Applic Plugging Completion	Sample Log Am Steat Sample Descript x Sample Set 7-//84 P-611 Cores
Bond Co. & No. National Surety Corporation	504 9680
Bond Am't \$ 10,000 Cancelled 3-7-62 Organia	
Filing Receipt 9223 dated 3-22260 Well Book	X Plat Book x
Loc. Plat X Dedication	n <u>S/2 SW/4 35-39N-13W</u>
API # 02-015-60003	
PERMIT NO. 114 Date Issued 3-22-	60

2" - 07-015-62003

IJ

Formation Tops	Scout	Sample	E. Log	Remarks
Moenkopi			surface	
Kaib ab		390	103	
Toroweap		755	753	
Coconino		1360	1275	
Hermit		1403	1395	
Queantoweap		2250		
Pakoon		2754		
Callville(L.	Supai?)	3470?		
Redwa11		3780?	-	Redwall 3480 ?
Cambrian		3660?		
Cambrian-To	nto	3680?		
		ı		
· · ·				
-				
		 	+	
		 	-	
		 		
		1	<u> </u>	
		!		

Core Analysis, DST charts, etc.

DETAIL OF FORMATIONS PENETRATES Description* Bottom Formation KB to surface 12 0 300 Shale and siltstones 12 Dolomite and lime 420 300 Anhydrite Shale 420 520 750 Lime 520 Anhydrite 750 970 Lime and dolomite 1210 970 Sand, lime and anhydrite 1360 1210 Sand, siltstones with lime streaks 2190 1360 Sand and lime 2270 2190 Sands and dolomite, 2270 -2880 Lime, dolomite and sands 2880 4015 No Cores or DST ELECTRIC LOG AND SAMPLE TOPS: Surface Moenkopi 318 Kaibab Toroweap 790 Coconino 1291 Hermit 1396 Queantoweap 1758 2190 Pakoon 2650 Callville 3155 Illipah 3480 Redwall 3660 Cambrian Cambrian-3680 4015 Tonto

INSTRUCTIONS:

 \mathbf{C}

ter labers:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State Land Commissioner not later than thirty days after project comple-

^{*} Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoverles.

•	WE	ELL CO	MPLETIC				ETION R		T AND	WELL	LOG			14
New Work	·- 🔲	Deepen		Plug Back		Same Reserve	oir 🔲	Differ Reser	rent voir] _011		Gas		Dry
				DESC	liPTI	ON OF V	VELL ANI	LEAS	Е.					
Operator						- [Address	•	.a. eza 1.	D		ara fan	a.	
Tennessee C	as Tra	ansmis.	sion C	ompan	<u> </u>	<u> </u>	Well Num			Reserve		Colora	.00_	
Lease Name	Calana	than					1	1,61	i	dcat				
USA Art J.	senre.	roer									c.—TWF	-Range o	r Bloc	k & Surv
580' FSL, 1	1 900 1	FWL	SW	/4 S	ecti	on 35	, T39N,	R13V	<i>I</i> , <u>G</u>	&SR				
County		Permit n			Date	e Issued	_		evious p	ermit nu	ımber	Date Is	sued	
Mohave		#1_				3/25/60		1 7	ra ta			Elevation	on of	caging
Date spudded			depth re	eached		e complet iuce	ed, ready t	(E	evation	TEP OF	Gr.) feet	hd. flan	ige	Casing
4/25/60	!	5/2 P.B.T.D.	0/60_		Sine	de, dual o	or triple co		5404 1?	[If th	nie is s	dual or tr	iple co	moletion
Total depth 4015'	Į I	c.b.1.D.	_		2,01		gged		•	furn plet	iish sepa	rate repo	rt for	each co
Producing interval (s) for this	s completi	ion		<u> </u>		Rotary to	ols use	d (interv	al)	Cable	tools use	d (int	erval)
	-						0-40				<u> </u>			
Was this well direc	tionally di	rilled? W	as directi	onal sur	vey m	nade?	Was copy filed?	of dire	ctional si	irvey	Date	nled		•
No					42 42		nlon'				Date	filed –		
Type of electrical of			eneck logs	niea wi	in th	e commis	5(OH)				Ditte			
Gamma Ray	- indu	ction				CASING	RECORD							
Casing (report all	strings se	et in well	-conduct	or, surfa				g, etc.)						
Ригрове		le drilled		casing s		Weight			pth set		Sacks ce	ment	A	mt. pulle
Surface	17 1	/2"	13	3/8"	\overline{oD}	48	#	12	815		160			
Durrace		<u> </u>	- - -						,					
													<u> </u>	
TU	JBING RE									RECOR			1 -	waa ///
1 1	Depth set		acker set	at S	ze	in.	Тор	ft.	Bottom	rit Cit	ļ ⁻	s cement	Sc	reen (ft.)
in.	च्यां प्रद	ft. ORATION	RECORI				AC		T, FRA		1	NT SQUE	EEZE	RECORI
Number per ft.	Size &			epth Int	erval		-1		of mater				h Inte	
				 ·			-				-			
							-			 .	_		···	
							RODUCTIO							_
Date of first prod	uction	1	Producing	method	(indle	ate if flo	wing, gas	ift or p	umping-	-if pump	lng, eho	w size &	type	of pump
Date of test Hr	s. teated	Chele	e size	Oil nr	od. dr	ring test	Gas pro	d. durin	g test	Water	prod. du	ring test	OII	gravity
Date of test Hr	o. toattu	CHOK	0180			bbis.	· -		MCF			bbls.	1	• API
Tubing pressure	Casing	pressure	Çal't	ed rate o	Pro-	OII	<u> </u>	Gas		1	Vater		Gas	oil rat
Ì	<u> </u>		duct	on per a		<u> </u>	bbls.			MCF		bbls.		
Disposition of gas	(state wi	hether ver	nted, used	for fuel	or sol	d):								
}	 													<u>27</u>
CERTIFICAT	E: I, <u>t</u> l	he under	signed, t	ınder th	e ber	alty of p	perjury, s	tate th	at I am	he <u>Dis</u>	trict	Prod	<u>. Su</u>	pt. of
Tennessee														
was prepared best of my kno			ision an	d direct	100	and that	the facts	stated	therem	are tru	ie, con	rect and	comp	lete to
Dest of my kin	mienke.						•							
1										0		_		
									L		-14	les.		
[61		MN	TUR	7	R.N.	Walk
							-,	Sign	ature		.			
		-			,			STATE	OF AR	IZONA S	STATE	LAND C	OMMIS	SIONER
					101	U		₩eil Co	mpletion			n Report	and V	Vell Log
						Mar	Form	No. P	-7	Fil	le two co			
						· • • • • • • • • • • • • • • • • • • •								
<u>_</u>					U	77	Auth	orized b	y Order			~59 11-6 -		

Ģ

the state of the s

O

•	`,	F	PLUGGING	RECORD	N. A			
Operator				Address	•			
Tennessee Gas Trai	nsmission C	ompany		P. O. Box	1714, D	urang	o,_Colo	rado
Name of Lease		-	Well	l l				
USA Art J. Schreibe	er	·		- <u> </u>	<u>ldcat</u> c-Twp-Rge	or Block	& Survey	County
Location of Well)	se 35, T39N, R1	• -	SR		Mohave
580' FSL and 1900'	FW1.	Has this	well ever	Character of well	l at comple	tion (ini	tial product	tion):
Application to drill this well in name of	and med	produced	oll or gas	Oil (bbls/day		las (MCI	F/day)	Dry?
Tennessee Gas Tran	<u>smission Co</u>	2	No		duoing who	n Blugge	<u> </u>	Yes
Date plugged:		Total dep	ın	Amount well pro Oil (bbls/day		as (MC	F/day)	Water (bbls./day
5/22/60		401	51		<u>l</u>			
Name of each formation con taining oil or gas. Indicate which formation open to well bore at time of plugging	ntent of each	formation	Depth interval o	f each form	ation	Indicate zo	& depth of plugs us ones squeeze cement ount cement.	
None								
								
				-				
				-				
	<u> </u>			<u> </u>		<u> </u>		
			CASING	RECORD				
Size pipe Put in we	ell (ft.) Pulled o	out (ft.) Le	ft in well (ft.)) Give depth and method of parting		3	Packers and	d shoes
13 3/8" OD 128			1281	casing (shot, ripped etc)				
13 3/8" OD 128) <u> </u>	'						
				-	-			
				_	_			
		i		_				
				: :				
	i	i			_			
	adan fluid coord	ing to remits	tions?	Indicate deepe	st formation	o contain	ing fresh w	rater.
Was well filled with mud-la	aden fluid, accord	ing to regula	tions?	Indicate deepe:	st formation	o contain	ing fresh w	rater.
Yes				Indicate deeper	None			
Yes	AND ADDRESSE			<u> </u>	None	S OF TE		CE
Yes NAMES A	AND ADDRESSE	S OF ADJA	CENT LEAS	E OPERATORS OF	None	S OF TH	IE SURFA	CE is well:
Yes NAMES A	AND ADDRESSE	S OF ADJA		E OPERATORS OF	None	OF THE	IE SURFA	CE is well:
Yes NAMES A Name Tennessee Gas Tra	AND ADDRESSE	S OF ADJA	CENT LEAS	E OPERATORS OF	None	OF THE	IE SURFA	CE is well:
Yes NAMES A Name Tennessee Gas Tra Company	nsmission	S OF ADJA Address P. O.	CENT LEAS	E OPERATORS OF	None R OWNER:	At 1	HE SURFA on from th east or in all	ce ls well: ne directions
Yes Name Tennessee Gas Tra Company In addition to other information to hat letter from surface owner ging which might be requested. Acreage drille	nsmission mation required of fresh water authorizing compared.	P. O. on this form, r sand, perforpletion of the	BOX 1711	E OPERATORS OF	None R OWNER! For use ng a land, name reeing to as	At 1 mile	HE SURFA on from th east or in all ter well, giress of sur liability f	ce Is well: ne L directions we all pertinent deta face owner, and at or any subsequent t
Yes Name Tennessee Gas Tra Company In addition to other inforplugging operations to haletter from surface owner ging which might be required. Acreage drille Federal and St	nsmission mation required of se of fresh water authorizing consulted. at regular	P. O. on this form, r sand, perfo pletion of the	Box 1711 if this well arated intervals well as a lugging	was plugged back for the fresh water swater well and agr	None R OWNER! For use ng a land, name reeing to as	At 1 mile	HE SURFA on from th east or in all ter well, giress of sur liability f	ce Is well: ne L directions we all pertinent deta face owner, and at or any subsequent t
Name Tennessee Gas Tra Company In addition to other inforplugging operations to ha letter from surface owner ging which might be requested. Acreage drille Federal and St Use reverse side for addition of the property	mation required of se of fresh water zuthorizing considered.	P. O. on this form, r sand, perforpletion of the pletion of the pletions. Arizona Oil &	BOX 171 if this well rated intervals well as a velical section.	was plugged back for the fresh water swater well and agrouperations—water operations—water	None R OWNER: or use as a sand, name reeing to as	At 1 mile	HE SURFA on from th east or in all ter well, givens of sur il liability f	ce Is well: De L directions We all pertinent detarace owner, and at or any subsequent pance with
Yes Name Tennessee Gas Tra Company In addition to other inforplugging operations to haletter from surface owner ging which might be required. Acreage drille Federal and St	mation required of se of fresh water zuthorizing considered.	P. O. on this form, r sand, perforpletion of the pletion of the pletions. Arizona Oil &	BOX 171 if this well rated intervals well as a velical section.	was plugged back for the fresh water swater well and agrouperations—water operations—water	None R OWNER: or use as a sand, name reeing to as	At 1 mile	HE SURFA on from th east or in all ter well, givens of sur il liability f	ce Is well: De L directions We all pertinent detarace owner, and at or any subsequent pance with
Yes NAMES A Name Tennessee Gas Tra Company In addition to other inforplugging operations to haletter from surface ownerging which might be required which might be required and St Use reverse side for additional file this form in duplicate CERTIFICATE: I, the und	mation required of se of fresh water authorizing considered. The required of the required of the required on the required on the required on the required on the resigned, under the region of the resigned, under the region of the resigned	P. O. on this form, r sand, perforpletion of the all and ptions. Arizona Oil 6	BOX 1711 if this well are a series well as a series well	was plugged back for the fresh water swater well and agrouperations—water Commission that I am the Disi	None R OWNER! for use as a sand, name reeing to as were do:	S OF TR Directl At 1 mile fresh wa and add sume ful	east or in all ter well, giress of sur I liability f	ce Is well: ne I directions we all pertinent deta face owner, and at or any subsequent in ance with perintendents this report; and that
Name Tennessee Gas Tra Company In addition to other inforplugging operations to ha letter from surface owner ging which might be requested. Acreage drille Federal and St Use reverse side for addition of the property	mation required of se of fresh water authorizing considered. The required of the required of the required on the required on the required on the required on the resigned, under the region of the resigned, under the region of the resigned	P. O. on this form, r sand, perforpletion of the all and ptions. Arizona Oil 6	BOX 1711 if this well are a series well as a series well	was plugged back for the fresh water swater well and agrouperations—water Commission that I am the Disi	None R OWNER! for use as a sand, name reeing to as were do:	S OF TR Directl At 1 mile fresh wa and add sume ful	east or in all ter well, giress of sur I liability f	ce Is well: ne I directions we all pertinent deta face owner, and at or any subsequent in ance with perintendents this report; and that
Yes NAMES A Name Tennessee Gas Tra Company In addition to other inforplugging operations to haletter from surface ownerging which might be required which might be required and St Use reverse side for additional file this form in duplicate CERTIFICATE: I, the und	mation required of se of fresh water authorizing considered. The required of the required of the required on the required on the required on the required on the resigned, under the region of the resigned, under the region of the resigned	P. O. on this form, r sand, perforpletion of the all and ptions. Arizona Oil 6	BOX 1711 if this well are a series well as a series well	was plugged back for the fresh water swater well and agrouperations—water Commission that I am the Disi	None R OWNER! for use as a sand, name reeing to as were do:	S OF TR Directl At 1 mile fresh wa and add sume ful	east or in all ter well, giress of sur I liability f	ce Is well: ne I directions we all pertinent deta face owner, and at or any subsequent in ance with perintendents this report; and that
Yes NAMES A Name Tennessee Gas Tra Company In addition to other inforplugging operations to haletter from surface ownerging which might be required which might be required and St Use reverse side for additional file this form in duplicate CERTIFICATE: I, the und	mation required of se of fresh water authorizing considered. The required of the required of the required on the required on the required on the required on the resigned, under the region of the resigned, under the region of the resigned	P. O. on this form, r sand, perforpletion of the all and ptions. Arizona Oil 6	BOX 1711 if this well are a series well as a series well	was plugged back for the fresh water swater well and agrouperations—water Commission that I am the Disi	None R OWNER! for use as a sand, name reeing to as were do:	S OF TR Directl At 1 mile fresh wa and add sume ful	east or in all ter well, giress of sur I liability f	ce Is well: ne I directions we all pertinent deta face owner, and at or any subsequent in ance with perintendents this report; and that
Yes NAMES A Name Tennessee Gas Tra Company In addition to other inforplugging operations to haletter from surface ownerging which might be required which might be required and St Use reverse side for additional file this form in duplicate CERTIFICATE: I, the und	mation required of se of fresh water authorizing considered. The required of the required of the required on the required on the required on the required on the resigned, under the region of the resigned, under the region of the resigned	P. O. on this form, r sand, perforpletion of the all and ptions. Arizona Oil 6	BOX 1711 if this well are a series well as a series well	was plugged back for the fresh water swater well and agrouperations—water Commission that I am the Disi	None R OWNERS or use as a and, name reeing to as were dos trict. P. norized by sa ire true, cors	At 1 miles fresh wa and add sume ful	ter well, giress of surial liability f	ce is well: de directions we all pertinent deta face owner, and at or any subsequent in ance with perintendents this report; and that the best of my knowle
Name Tennessee Gas Tra Company In addition to other inforplugging operations to haletter from surface owner ging which might be required. Acreage drille Federal and St Use reverse side for addition of the state of the st	mation required case of fresh water authorizing considered. ate regularised exists and derail with the State of ersigned, under the transmission army supervision army supervis	P. O. On this form, r sand, perforpletion of the all and ptions. Arizona Oil & the penalty of	BOX 171 if this well rated intervals well as a state of the state of	was plugged back for the fresh water swater well and agrouperations—water Commission that I am the Disi	None R OWNERS or use as a and, name reeing to as were dos trict. P. norized by sa ire true, cors	At 1 miles fresh wa and add sume ful	ter well, giress of surial liability f	ce is well: de directions we all pertinent deta face owner, and at or any subsequent in ance with perintendents this report; and that the best of my knowle
Yes NAMES A Name Tennessee Gas Tra Company In addition to other inforplugging operations to haletter from surface ownerging which might be required which might be required and St Use reverse side for additional file this form in duplicate CERTIFICATE: I, the und	mation required case of fresh water authorizing considered. ate regularised exists and derail with the State of ersigned, under the transmission army supervision army supervis	P. O. On this form, r sand, perforpletion of the all and ptions. Arizona Oil & the penalty of	BOX 171 if this well rated intervals well as a state of the state of	was plugged back for the fresh water swater well and agrouperations—water Commission that I am the Disi	None R OWNERS for use and a sand, name reeing to as were dose trict.P.	At 1 miles fresh wa and add sume ful	ter well, giress of surial liability f	ce Is well: ne I directions we all pertinent deta face owner, and at or any subsequent in ance with perintendents this report; and that
Name Tennessee Gas Tra Company In addition to other informal plugging operations to hat letter from surface owner ging which might be requested. Acreage drille Federal and St Use reverse side for addition of the state of	mation required case of fresh water authorizing considered. ate regularised exists and derail with the State of ersigned, under the transmission army supervision army supervis	P. O. On this form, r sand, perforpletion of the all and ptions. Arizona Oil & the penalty of	BOX 171 if this well rated intervals well as a state of the state of	was plugged back for the state of the state	None R OWNER! For use ng a sand, name reeing to as were do: trict.P. norized by saure true, corrections or the corrections of the corrections	At 1 Mile fresh wa and add sume ful roduci add comparect and c	east or in all ter well, giress of sun all liability faccords	ce Is well: ne I directions we all pertinent detainace owner, and at or any subsequent in the control of the
Name Tennessee Gas Tra Company In addition to other informal plugging operations to hat letter from surface owner ging which might be requested. Acreage drille Federal and St Use reverse side for addition of the state of	mation required case of fresh water authorizing considered. ate regularised exists and derail with the State of ersigned, under the transmission army supervision army supervis	P. O. On this form, r sand, perforpletion of the all and ptions. Arizona Oil & the penalty of	BOX 171 if this well rated intervals well as a state of the state of	was plugged back for the state of the state	None R OWNER! For use ng a sand, name reeing to as were do: trict.P. norized by saure true, corrections or the corrections of the corrections	At 1 mile fresh wa and add sume ful to in the control of ARICRVATION	ter well, giress of suri il liability factor Suring to make complete to the suring	ce Is well: De directions We all pertinent detainace owner, and at or any subsequent pance with perintendents this report; and that the best of my knowledges R. N. Walke: L& GAS HISSION
Name Tennessee Gas Tra Company In addition to other informal plugging operations to hat letter from surface owner ging which might be requested. Acreage drille Federal and St Use reverse side for addition of the state of	mation required case of fresh water authorizing considered. ate regularised exists and derail with the State of ersigned, under the transmission army supervision army supervis	P. O. On this form, r sand, perforpletion of the all and ptions. Arizona Oil & the penalty of	BOX 171 if this well rated intervals well as a state of the state of	was plugged back for the first water well and agreement of the first water sections water well and agreement that I am the Distant that I am authorized therein a significant first stated therein a significant water w	None R OWNERS For use as a sand, name reeing to as were dose trict. Properties of the same true, corrections of the same true, corrections of the same true.	At 1 Mile fresh wa and add sume ful no in roduci aid comparect and	ter well, giress of suit illability faccords	ce Is well: ne I directions we all pertinent detainace owner, and at or any subsequent in the control of the
Name Tennessee Gas Tra Company In addition to other informal plugging operations to hat letter from surface owner ging which might be requested. Acreage drille Federal and St Use reverse side for addition of the state of	mation required case of fresh water authorizing considered. ate regularised exists and derail with the State of ersigned, under the transmission army supervision army supervis	P. O. On this form, r sand, perforpletion of the all and ptions. Arizona Oil & the penalty of	BOX 171 if this well rated intervals well as a state of the state of	was plugged back for the state of the state	None R OWNERS For use ng a sand, name reeing to as Were dose trict. P. norized by saure true, corrections STATE CONSE	of ARI	ter well, gives of surial liability for according to make complete to the comp	ce Is well: ne directions we all pertinent deta face owner, and at or any subsequent in ance with perintendent this report; and that the best of my knowle R. N. Walke. L & GAS MISSION File two copies
Name Tennessee Gas Tra Company In addition to other informal plugging operations to hat letter from surface owner ging which might be requested. Acreage drille Federal and St Use reverse side for addition of the state of	mation required case of fresh water authorizing considered. ate regularised exists and derail with the State of ersigned, under the transmission army supervision army supervis	P. O. On this form, r sand, perforpletion of the all and ptions. Arizona Oil & the penalty of	BOX 171 if this well rated intervals well as a state of the state of	was plugged back for the first water well and agreement of the first water sections water well and agreement that I am the Distant that I am authorized therein a significant first stated therein a significant water w	None R OWNERS For use ng a sand, name reeing to as Were dose trict. P. norized by saure true, corrections STATE CONSE	At 1 Mile fresh wa and add sume ful no in roduci aid comparect and	ter well, gives of surial liability for according to make complete to the comp	ce Is well: ne directions ye all pertinent deta face owner, and at or any subsequent in ance with perintendent this report; and that the best of my knowle R. N. Walke. L & GAS MISSION File two copies

ß

THE RESIDENCE OF THE PARTY OF T

O

APPLICATION TO ABANDON AND PLUG

OPERATOR Tennessee Gas Transmission Co. ADDRE	SS P. O. Box 1714, Durango, Colorado
OPERATOR Tennessee Gas Transmission Co. ADDRE	COUNTY Mohave
LEASE USA Art J. Schreiber WELL NO. 1	DRILLING PERMIT NO. 114
SURVEY G&SR SECTION 35	DRIBBING I Zame
LOCATION 580' FSL and 1900' FWL	
LOCATION 500 FSI and 1.00 The	MOTAL DEPTH 4015
TYPE OF WELL Dry Hole (Oil, Gas or Dry Hole)	TOTAL DELTIL TRADE
ALLOWABLE (If Assigned) (Oil, Gas or Dry Hole)	(Rhls)
OH OH	ols.)
CAS (M9	CF) DATE OF TEST ======
PRODUCING HORIZON None PRODUCING H	FROMTO
32 2/8" on LO# Surface casing set at 128' Wi	th 100 sacks of cements.
2. FULL DETAILS OF PROPOSED PLAN OF WORK	
2. FULL DETAILS OF FROTOSED THE	manner:
Set bridge plug at 125' in bottom of su	rface casing and spot 1) sales of compat
will easing from 125' to surface with m	nd-laden Time. Spot to saces of
in top of surface casing. Install perm	anent marker.
If well is to be abandoned, does proposed work conform with r	equirements of Rule 202? yes If not,
util a managed procedure above.	•
onen amionic May 21, 1900	
NAME OF PERSON DOING WORK J. J. Iacey	ADDRESS P. O. Box 1714, Durango, Colo
NAME OF PERSON DOING WOME	
CORRESPONDENCE SHOULD BE SENT TO	Russacher R. N. Walker
	INE
TI	TLE District Production Superintendent
	When all one of the Conservation commission
Date Approved	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Form 15A

Application to Abandon and Plug

5A File 2 Copies

Authorized by Order No. 4-6-59
Effective April 6, 1959

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION

Form No. 15A

~ ~

ARIZONA MOHAVE COUNTY WILDCAT (W)

6

PETROLEUM INFORMATION ROCKY MOUNTAIN

Twp 39n-13w Section 35 se sw 580 n/s 1900 e/w

WELL#: 1 USA-Schreiber OPR: Tennessee Gas & Oil COMPL: 5-22-60 DSTS. & CORES: SPUD: 4-25-60 ELEV: Log-Sample 4015 *TOPS: TD: CSG: Tempoweep-surface Kaibab 327 Toroweep 757 Coconino 1290 Permian 1396 13-3/8" @ 117 w/100 No cores or tests. PERF: Spl Tops: Pakoon 2190 Callville 2650 Illipah 3155 Red Wall 3480 Cambrian 3670 Tonto (Cambrian) 3680 PROD. ZONE: INIT. PROD:

D & A.

* Fr. Electric Logs on Rocky Mountain Wells—Ask Usl The second secon

Ariz. 11-061330

THE STATE OF THE S

TENNESSEE GAS AND OIL COMPANY
USA-ART J. SCHREIFER #1
MOHAVE COUNTY, ARIZONA

REPORT AT

JAMES W. NANCE

CONSULTING GEOLOGIST

O

The state of the s

77

TABLE OF CONTENTS

	-
WELL SUMMARY	1
FORMATION TOPS	2
CHRONOLOGICAL LOG	5
SAMPLE DESCRIPTION	5
BIT RECORD	19
SLOPE TESTS (EASTWAN)	20
ADDRESS STOLLS CONTRACTOR	21

ก

A CONTRACTOR OF THE PARTY OF TH

, つつ WELL SUMMARY

COMPANY:

Termosee Gas and Oil Company

WELL:

USA-Art J. Schreiber #1

AREA:

Northmest Arisona (Arisona Strip)

LOCATIONS

580' fel; 1900' fel, 835-T39N-R13W,

Mohave County, Arisona

ELEVATION:

5hou or.

5416' KB

CONTRACTOR :

Well Completions, Inc., Denver, Colorado

(Air & Rig)

SPUDDED:

April 25, 1960

FINISHED DRILLING:

May 20, 1960

CASING:

13-3/8" @ 128' (KB) W/160 Sx.

CORES:

Hone

DRILL STEM TESTS:

None

DRILLING PROCEDURE:

Drilled with Air 0 - 3083

3083 - 3915 Drilled with Air, Water 4015 and Detergent injected.

LOCGING SERVICES: .

Portable Engineering Corp. 1-man Mud-logging Unit 850' - 4015'

Schlumberger Campa Ray Log 128' - 1848' Schlumberger Induction Log 128' - 1850' 3. Because of bridge in hole, mble to log below 18501.

TOTAL DEPTH:

40151

PLUCOING PROCEDURE:

Flug #1 - Set bridge plug @ 125'. Topped with 15 secks regular cement.

Plug #2 - 10 sacks plug in top surface pipe W/regulation marker comented in.

: CUTATE

DAA

A CONTRACTOR OF THE PARTY OF TH

FORMATION TOPS

	Sample	Schlumberger
Moenkopi (Surface)		
Keibab	3901	l103 '
Torowesp	755 '	7531
Cocordino	1360	1275 (?)
	11.031	1395
Hermit	22501	No Log
Queantoweap	2754	No Log
Pakoon		No Log
Cellville (L. Supai ?)		
Redwall	3780' (१)	No Log

CHRONOLOGICAL LOG

April 25, Spudded at 12:00 Hoon Drilled 0-73' (9-7/8" hole)

April 26, Drilled 73-13h'(9-7/8" hole)
Resmed 0-122'(Resmed to 17-1/2")

April 27, Remmed 122-13h Ran 3 Jts. 116.65' of 13-3/8", H-h0, h8.00#, 8 RT casing, landed 8 KB. Cemented by Howco W/160 Sx. regular cement, 2% Calcium Chloride; Circulated cement, plug down 8 2:30 P.H.

April 28, Hippled up - drilled plug 3 1:30 P. M. Found top of plug 3 125:
Drilled 13h-309' (7-7/8" hole)

April 29, Drilled 309-465'

April 30, Drilled 465-560'

May 1, Drilled 560-608'

Nay 2, Drilled 608-683

May 3, Drilled 683-863'

May h, Drilled 863-1076'

Hay 5, Drilled 1076-1173'

May 6, Drilled 1173-1312'

 \mathbf{C}

114

CHARLES STREET

Drilled 1312-1465' - Ran Mission Hammer Drill 1397-1481'

May 8, Orilled 11:65-1690'

May 7,

May 9, Drilled 1690-1990!

May 10, Drilled 1990-2222' - Installed after Cooler on Compressors.

Hay 11, Drilled 2222-2446' - Ran Hammer Drill & 2316' - Hooked up Booster.

May 12, Drilled 2446-2817' - Encountered Moisture 2720-30'

May 13, Drilled 2817-2978:

May 11, Drilled 2978-3083' - Stopped dusting @ 3065' - Required 12 hours to get out of hole. Worked pips most of way - mad on pips - layed down Hammer Drill.

May 15, Drilled 3083-3223' - Drilling without Hammer Drill 3083-309h (11' in h-1/2 hours), Below 309h (With Hammer Drill), Drilled h" to 5"/ft. Started injecting detergent charged water 3 3083'.

May 16, Drilled 3223-3400'

May 17, Drilled 3h00-3561' - Sterted running 7-7/8" 3-Point bottom hole reamer.

May 18, Drilled 3561-3680

May 19, Drillad 3680-3885

Way 20, Drilled 3885-4015! - Hiew hole, pulled pipe, layed down
Drill Collars. Stripped-off B O P's.,
Waiting on Schlumberger.

Hay 21, Started running logs & 1:00 A. H. - Would not go down - back in hole and cleaned out to bottom. Had difficulty getting out of hole. Started in hole W/Osman Ray-Neutron Sonie, found Meutron not functioning - pulled out to repair, could not repair - started back in hole to run Gasma Ray Curves. Hole bridged @ 1850'. In hole W/Rit and tried to dry drill out bridge - could not - logged 1850' to bottom surface pipe.

- 3 -

May 22, Finished logging 2:30 A. M. Layed down Drill Pipe; Set 13-3/8" bridge plug @ 125', topped with 15 Sacks regular cement. 10 Sacks plug in top surface pipe W/regulation marker cemented in.

Finished plugging @ 10:30 A. M.

Released Rig.

#114

SAMPLE DESCRIPTION

130 - 150	Shale, medium gray to greenish-gray, mostly fiscile, some blocky, slightly calcareous.
150 - 160	Shale, gray to brommish-gray, mostly fissile, some blocky, slightly micaceous and calcareous shale.
160 - 170	Limestone, medium gray, very finally crystalline, hard, with abundant shale as above.
170 - 180	Shale, medium gray, fissile, slightly pyritic, hard.
180 - 190	Shale, as above, with abundant gray to tan argillaceou limestons.
190 - 370	Shale, maroon to light brown, silty, trace gypaum, trace greenish-gray shale, slightly calcareous.
370 - 385	Chart, gray to milky.
385 - 390	Shale, light green, fissile but hard, locally slightly pyritic.
390 - 400	limestone, buff to cream, hard and dense, locally glauconitic, abundant milky to smoky chert - trace of green shale as above.
700 - 750	Limestone, buff to tan, hard, sub-lithographic, with abundant chart.
120 - 1130	Shele, marcon, locally quite silty, with abundant anhydrite.
430 - 440	Idmestone, buff to ten, hard, abundant chart.
440 - 450	Shale, marcon, locally silty, abundant anhydrite.
450 – 460	Dolomite, medium gray, hard, dense, with abundant chart.
160 - 160	Limestone, buff to gray, some dolumitic, locally pyritic, abundant chart.
480 - 500	limestone, as above, with abundant chart, trace of gray calcareous shale.
500 - 520	Limestone, buff to light gray, finely granular, argillaceous, abundant chert and anhydrite, trace of marcon shale.

520 – 620	Limestone, cream colored, sub-lithographic to lithographic, very hard, trace chert.
520 - 680	Limestone, cream to white, mostly sub-lithographic, some micro-granular, hard, dense.
580 - 75 0	limestone, buff to cream to white, mostly sub- lithographic, some micro-granular, dense, hard, trace chert.
750 - 760	Limestone, as above, with trace medium gray shale.
760 - 790	Dolomite, gray to brown, hard, dense, some question- able dead oil stain, no fluorescence, no cut, abundant anhydrite.
770 - 780	Anhydrite, clear, crystalline, with considerable dolomite as above.
780 - 800	Dologite, gray to brownish-gray, dense, hard, with abundant blue-gray chert - trace subydrite.
800 - 810	Anhydrite, white to clear, crystalline.
810 - 820	Dolomite, brown to brownish-gray, mostly dense, some micro-crystalline, hard.
820 - 840	Dolomite and Anhydrite, both as above, in about equal amounts.
840 - 850	Dolomite, brown to brownish-gray, hard, dense, with minor amount of black, carboncecus, sparsely micaceous and slightly calcareous, fissile shale.
850 - 860	Anhydrite, cream to white, dense, with minor amount of medium gray, slightly argillaceous delomite.
860 - 870	Ammydrite, light brown to amber, dense, finely crystalline.
870 - 680	Annydrite, light brown to white, mostly dense, minor amount of gray to bluish-gray dolosite. Trace of light gray, very, very fine grained, hard and tight sandstone.
880 - 890	Sandstone, light gray, very, very fine grained, tight, with abundant light brown siltatone, also abundant anhydrite.

AND DESCRIPTION OF THE PARTY OF

C

O

390 - 900	Anhydrite, white to clear, dense to crystalline, trace of gray dolomite.
900 - 910	Anhydrite, as above, with abuniant light gray siltstone, grading to very fine grained sandstone.
910 - 920	Anhydrite, white to clear, dense, with abuniant marcon, silty shale.
920 - 940	Anhydrite, amber to clear, dense, with minor amount of madium gray to greenish-gray, blocky shale.
940 - 950	Anhydrite, as above, with considerable dark gray, hard, dolomite, trace of black, carboneceous shale. Note: This sample gave hydrocarbon odor from sack - no gas show by mid-logging unit, no fluorescence or cut. Some appears to show a slight dead oil stain.
950 - 960	Shale, medium gray to greenish-gray, blocky, not too hard, slightly calcareous, abundant anhydrite.
960 - 970	Anhydrite, white to clear, dense to finely crystalline, with abundant shale as above.
970 - 980	Dolomite, brown to tan, dense, hard.
980 - 990	Dolomite, ten, dense, hard with abundant greenish-gray shale.
990 ~ 1000	Dolomite, tan to buff, dense, hard, trace greenish-gray shale as above.
1000 - 1030	Dolamite, buff to tan, dense, hard.
1030 - 1040	Limestone, buff to light brown, micro- to finely crystalline, hard, trace of green shale.
1040 - 1050	Limestone, ten, finely to coarsely crystalline, appears to be somewhat nodular.
1050 - 1060	limestons, as above, with an occasional fragment showing slight micro-vuggy perceity, some pinkish, charty limestone - trace milky chart.
1060 - 1070	Limestone, tan to light brown, finely to coarsely orystal- line, hard, with abundant tan to yellow marlstone with an

material.

occasional fragment showing pink to red tinge, earthy, trace chart. Note: This could be weathered surface

1070 - 1080 Limestone, tan to light brown, some with pink tinge, finely to coarsely crystalline, trace marlstone, as above. Trace dark gray to brown, fissile shale, locally very glauconitic.

- 1080 1100 Limestone, tan to buff, some with very slight pink tinge, dense to micro-crystalline, very hard, trace milky chert.
- 1100 1150 Limestone, ten to cresa, dense to micro-crystalline, hard, trace chart.
- 1180 1190 Minustone, tan, dense to micro-crystalline, hard, trace chart.
- 1190 1210 Limestone, as above, with considerable chart, few chart inclusions, locally slightly sandy.
- 1210 1220 Sandstone, tan to light brown, some with pinkish tint, very fine grained, very calcareous, very tight, with abundant medium gray, very fine grained, slightly calcareous, argillaceous sandstone, grading to sandy shale. Tan sandstone appears to be weathered.
- 1220 1230 Amhydrite, light brown to white, dense to finally orystalline.
- 1230 1250 Dolomite, cresm to light gray, dense to micro-grammler, abundant milky chert.
- 1250 1260 Dolomite, cream to buff, dense to micro-crystalline, locally slightly sandy, abundant gray to blue-gray chert.
- 1260 1270 Dolomite, cresm to light gray, somewhat granular, with many interspersed granules of anhydrite, abundant milky to blue chart.
- 1270 1280 Dolomite, as above, predominant with abundant medium gray to greanish-gray, very fine grained, dolomitic sandstone, trace of anhydrite, trace of chert.
- 1280 1290 Sandstone, medium gray to light gray, very fine grained, grading to siltatone, very calcareous, hard and tight, no visible porosity or permesbility.
- 1290 1300 Sandstone, as above, with abundant gray to tan dolosite, considerable anhydrite.

Control of the Contro

1300 - 1310 Idmestone, light brown, dense, hard, some dolomitic, with abundant brown, very calcareous shale.

1310 - 1320 Sandstone, medium gray, fine grained, ill-sorted, slightly dolomitic, very hard and tight.

1320 - 1350 Anhydrite, tan to white, dense to finely crystalline, with abundant brown to marcon siltetone grading to very fine grained sandstone.

1350 - 1360 Anhydrite, as above, with minor amount of light brown, hard, dense, slightly sandy dolomite.

1360 - 1390 Sandstone, light gray, fine grained, nearly 100% quarts - all drills up, no clusters.

1390 - 1405 Sandstone, light gray to light tan, fine to very fine grained. Hearly all quartz grains with calcareous cement. Heard, no visible porosity or permeability.

11:05 - 11:30 Siltstone, marcon to light brown, hard, trace of gray, fissile shale.

11:30 - 11:10 Siltatone, as above, with abundant buff to white, fine to very fine grained, hard, tight, slightly calcareous sandstone.

1440 - 1450 Sandstone, buff to nearly white, very fine grained, nearly all drills up into individual quarts grains.

11:50 - 11:60 Sandstone, medium gray to light gray, fine to very fine grained, hard, tight, calcareous.

1460 - 1470 Siltatons, marcon to light brown, hard, micacaous.

11:70 - 11:80 Siltstone, as above, with abundant buff to light gray, very fine grained, hard, tight, slightly calcareous sandstone.

11:80 - 11:90 Sandstone, some medium gray, some cream to white, fine to very fine grained, hard, tight, slightly calcareous, locally pyritic.

1480 - 1550 Siltatone, mercon to brown, hard, slightly miceceous.

1550 - 1570 Sandstone, light gray to nearly white, very fine grained, hard, tight, calcareous cement.

The state of the s

1570 - 1580 Sandstone, as above, predominant, with some medium gray, fine grained, argillaceous, micaceous and pyritic sandstone.

1580 - 1590 Sandstons, medium gray, fine grained, micaceous, pyritic, hard, tight, with abundant nearly white sandstons.

1590 - 1610 Sandstone, nearly white, very fine grained.

1610 - 1710 Siltatone, marcon, hard, micaceous.

1710 - 1720 Shale, marcon, silty, blocky.

1720 - 1730 Siltatone and Sandatone, siltatone is marcon, hard; sandatone is buff to nearly white, vary fine grained, slightly calcareous, hard and tight.

1730 - 1770 Siltstone, marcon, slightly micaceous, hard.

1770 - 1810 Sandstone, buff to nearly white, very fine grained, slightly calcareous, hard, tight. Trace chert, trace pyrite.

1810 - 1840 Siltatons, marcon, slightly micsceous, hard.

18h0 - 1850 Pyrite, finely to comreely crystalline, with some light ten to white, very fine grained, calcareous sandstone.

1850 - 1860 Sandstone, light tan to white, very fine grained, slightly calcareous, with abundant marcon, very fine grained, silty sandstone grading to siltstone, abundant pyrite.

1860 - 1880 Sandstone, light ten to white, very fine grained, slightly calcareous, no visible porosity, abundant pyrite.

1880 - 1890 Sandstom, as above, with few selenite orystals.

1890 - 1900 Samistons, light ten to white, very fine grained, calcaragus cament, tight, trace selenite, trace pyrite.

1900 - 1940 Sandstons, light ten to white, very fine grained, slightly calcareous coment, no visible porosity or permaability, trace pyrite.

1940 - 1960	Sandatone, as above, predominant, minor amount of light brown to marcon siltatone, numerous free selenite crystals.

- 1960 1980 Sandstone, light gray to tan, very fine grained, slightly calcareous, no visible porosity or permeability, trace chart.
- 1980 2000 Sandstone, mostly light tan, some light gray, very fine grained, tight, slightly calcareous, minor amount of marcon siltstone.
- 2000 2010 Siltatore, maroon to light brown, slightly micaceous, minor amount sendstone as above.
- 2010 2020 Sandstone, light tan to nearly white, very fine grained, hard, tight, slightly calcareous, minor amount siltatone as above, trace pyrite.
- 2020 2030 Siltatone, maroon to light brown, slightly sicaceous and calcareous, grading to very fine grained sandatone.
- 2030 -2040 Siltstone and sandstone, both as above, in about equal emounts.
- 2040 2060 Siltatore, marcon to pinkish-brown, slightly micaceous and calcareous.
- 2060 2070 Siltstone, as above, with minor amount of greenish-gray, slightly micaceous siltstone, both slightly calcareous.
- 2070 = 2090 Siltatone, maroon to light brown, slightly calcareous, slightly micecous.
- 2090 2100 Siltatone, as above, with abundant light ten to nearly white, very fine grained, tight sendstone.
- 2100 2130 Samistone and siltatone, both as above, in about equal exounts.
- 2130 21h0 Sandstone, light tan to nearly white, very fine grained, calcareous coment, very tight, abundant pyrite, some selenite.
- 21h0 2150 Sandstone, as above, with a few fragments showing a "malachite green" stain on face of sandstone clusters, trace of marcon siltatone.

ALL STREET, ST

2150 - 2160	Sandstone and siltstone, sandstone is light tan to nearly white, very fine grained, tight, slightly calcareous; siltstone is meroon, slightly miceceous and calcareous, minor amount of cream to white, finely
	crystalline limestom.

- 2160 2170 Siltstone, as above, with abundant greenish-gray, slightly ergillaceous dolomite with a few sand grains imbedded in matrix.
- 2170 2190 Sandstone, white, very fine grained, slightly calcareous, trace pyrite.
- 2190 = 2200 Limestone, light tan to white, finely orystalline with abundant white, fine sandstone and maroon siltstone (limestone 60%).
- 2200 2230 Sandstone, white, very fine grained, slightly calcareous cement.
- 2230 2240 Limestone, light ten, finely crystalline, abundant white, very fine grained, calcareous sandstone and marcon silt-stone. Trace medium gray, hard, micaceous, slightly calcareous shale.
- 2240 2250 Dolomite, light greenish-gray, dense, with a few imbedded sand grains, abundant marcon militatons.
- 2250 2260 Sandstone, light ten to nearly white, very fine grained, slightly calcareous, with abundant white limestone and marcon shale.
- 2260 2270 Sandstone, white, very fine grained, slightly calcareous, trace margon shale.
- 2270 2660 Sandstone, white, very fire grained, slightly calcareous, nearly all drills up into individual sand grains, very few clusters.
- 2660 2680 Sandstone, as above, predominant, with abundant light green delemitic siltstone to very fine greined sandstone.
- 2680 2690 Shale, greenish-gray, blocky to fissile, slightly micaceous and pyritic, slightly calcareous, abundant sandstone as above.
- 2690 2700 Tan to cream, very fine grained, calcareous, tight, some slight dead oil stain noted on a few fragments, no fluorescence, no cut.

2700 - 2710	Sandstone, as above, with a minor amount of medium
E100 - E120	gray, hard, calcareous and micaceous siltatons.

- 2710 2730 Sandstone, light tan to pink, fine grained, hard, tight, with abundant maroon, fissile to blocky shale.
- 2730 2740 Sandstone, pink, fine grained (but much coarser grained than any sand above), very slightly calcareous. Some of sand shows slight porosity and permeability. Some slight black to brown deed oil stain on a few fragments, no fluorescence or out. At 2720-2730 some moisture showed in samples damp sand dusting resumed after blowing hole about ten minutes.
- 271:0 2750 Shale, maroon to brown, blocky to fissile, slightly micaceous, abundant tan to pink, fine grained, sandstone.
- 2750 2760 Samistone, tan to cream predominant, some pink, very fine grained, slightly calcareous, tight samistone, with abundant marcon to brown shale.
- 2760 2770 Rolomite, creem colored to pinkish, dense to finely crystelline, with abundant brown shale.
- 2770 2790 Dolomite, light gray to cream to pinkish, finally crystalline to dense, hard, with abundant ten to gray, very fine grained samistome, showing slight dead oil stein locally.
- 2790- 2830 Sandstone, light gray to white, very fine grained, slight calogreous cament, tight and hard.
- 2830 2840 Sandstone, light gray to white, fine grained with an occasional large quartz grain inclusion, very calcareous, tight. Considerable light tan to pink dolom te.
- 2840 2850 Dolomite, cream to pink, finely crystalline, locally sandy, with shundant nearly white, fine grained, tight sandstone.
- 2850 2860 Dolomite, light tan predominant, some pink, dense to finely crystalline, hard.
- 2860 2880 Dolomite, as above, with trace greenish-gray, micaceous shale.
- 2880 2890 Delomite, tan, dense to finely crystalline, hard.

 \cap

Made Spiller Co. C. Francisco

2890 - 2950 Delomite, light tan, dense to micro-crystalline, locally sparsely pyritic, hard.

Commence of the Commence of th

2950 - 2960 Dolomite, as above, with abundant madium gray to greenish-gray, micaceous and slightly pyritic, argillaceous siltatons.

2960 - 3010 Dolomite, light tan, dense to micro-orystalline, hard, with trace siltatone as above.

3010 - 3090 Dolomite, ten to light brown, dense to micro-orystalline, hard, with minor amount of light brown, slightly fossiliferous limestone at 3020 - 3040.

3090 - 3130 Dolomite, cream to white, dense, very hard.

3130 - 3140 Skip

3140 - 3150 Dolomite, light tan to white, finely to coarsely crystelline, some showing fair to good vuggy porosity, some of porosity filled with secondary white-clay like mineral, non-calcareous. Trace of chert - a few vugs show a trace of heavy, dead oil stain.

3150 - 3160 Dolomite, light tan to white, finely to coarsely orystalline, most showing fair to good vuggy porosity, some granular dolomite showing fair to good intergranular porosity and some poor to fair dead oil stain, slight fluorescence and cut. Tract chert.

3160 - 3170 Limstone, ten to light brown, dense, to finely crystalline, with abundant mercon to purple, micaceous, calcareous, hard siltstone, grading to silty limestone.

3170 - 3190 Limestone, tan to light brown, hard and dense, also light brown to purple, hard, silicous limestone in about equal amounts.

3190 - 3200 Limestone, as above, with abundant (30%) light brown, silty, earthy shale.

3200 - 3210 Limestone, tan to pink to white, dense to microcrystalline, hard, trace purple, siliceous limestone.

3210 - 3220 Limestone, light ten to pink, dense to micro-orystalline, hard.

3220 - 3230 Limestone, as showe, predominant with miner amount (10%) of pink, fine grained, very calcareous sandstons - trace of red to light brown shale.

AND THE PROPERTY OF THE PARTY O

3230 - 3240 Limestone and Shale, limestone as above, shale is light brown to red, silty, very calcareous, considerable pink sandstone as above.

3210 - 3260 Limestone and Shale, limestone is ten to cream, dense to micro-crystalline, hard; shale is purple, blocky to fissile, very miceceous, calcareous, hard. Considerable pink, fine grained, very calcareous sandstone, showing slight porosity.

3260 - 3270 Idmsstone, tan to cresm, dense to finely crystalline, hard, with abundant light brown to purple, hard, very calcareous siltstone.

3270 - 3280 Skip

3280 - 3290 Limestone, ten to gray, some pink, dense to finely crystalline, hard.

3290 - 3310 Limestons, ten to light gray, some pinkish, dense to finely crystelline, hard, some recrystallization, some showing fossil fragments.

3310 - 3330 Limestons, ten to light gray, dense to finely crystalline, some gray to pink siliceous limestone, all hard - few fossil fragments.

3330 - 3340 Limestone, tan to gray, dense, finally crystalline, hard, trace of pink, siliceous limestone.

3340 - 3360 Sandstore, pink, fine grained, very calcareous cement, very hard, no visible porosity or permeability - trace limestone as above.

3360 - 3370 Sandstone, as above, with abundant mercon to light brown, locally silty shale - trace gray, hard, limestone.

3370 - 3380 White to pink, fine grained, very calcareous, hard and tight, with minor amount (15%) of gray to cream, finely crystalline, hard limestone.

3380 - 3390 Sandstone and Limestone, both as above, in about equal amounts with an abundance of marcon to light brown shale.

3390 - 3400 Limestone, gray to tan, dense to finely crystalline, hard, with an abundance of sandstone and shale as above.

3400 - 3410 Limestone, gray to tan, dense to finely crystalline, hard.

A STATE OF THE PARTY OF THE PAR

- 3410 3420 Limestone, as above, with abundant pink, very gritty, locally fossiliferous limestone, grading to very calcareous sanistone.
- 3120 3150 Sandstone, pink to white, fine grained, ill-sorted, calcareous to very calcareous, with abundant marcon to brown shale.
- 3450 3460 Skdp
- 3460 3470 Sandstone & Shale, sandstone is white to pink, fine grained, calcareous, hard and tight; shale is maroon to light brown, slightly micaceous, slightly calcareous, blocky, trace chert.
- 3h70 3520 Limestone, gray to tan to pink, dense to finely crystalline, locally gritty, abundant pink to rose chert.
- 3520 3530 Limestone, gray, dense to finely crystalline, hard, with abundant milky to rose chert, also abundant gray and maroon shale.
- 3530 3570 Limestone, as above, with abundant milky to rose chart, also abundant marcon to light brown, locally silty shale. (red shale could be cavings)
- 3570 3580 Limestone, gray, dense to finely crystelline, showing indication of fracturing some black, dead oil stain on fracture faces no fluorescence or cut, some milky ohert.
- 3580 3600 Limestone, as above, predominant, some white, gramular delemite showing slight deed oil stain, no fluorescence or cut considerable milky chert.
- 3600 3610 Limstone, light gray to tan, dense to finely crystalline, hard, with abundant light ten to white, dense to finely granular delemits, showing dead oil stain locally.
- 3610 3620 Limestons, ten to gray, dense, hard, with shundant white to milky chert.
- 3620 3650 Limestone, as above, predominant, some showing slight dead oil stain, some white, crystalline limestone, abundant white to milky chert.
- 3650 3660 Limestone, gray to tam, dense to finely crystalline, abundant milky chart.

The state of the s

3660 - 3670	Limestone, as siltstone and	above,	with some yellow, ca siltatone - abundant	lcareous chart.
9690 3900	(impotoro, as	. aworla	with abundant vollow	calcare

- 3670 3700 limstons, as above, with abundant yellow calcareous and micaceous siltatons (appears to be weathered), also abundant milky chert.
- 3700 3710 Limestone, mostly gray, some tan, finely crystalline, hard, some showing slight dead oil stain, particularly along fracture faces, abundant yellow, calcareous siltstone. For fossil fragments noted in limestone.
- 3710 3730 Limestone, gray to tan, some slightly pinkish, dense to finely crystalline few fossil fragments in some of limestone abundant chert.
- 3730 3740 Limestone, mostly cream, some tan and gray, dense to finely crystalline, with abundant chart.
- 3740 3760 Limestone, as above, with abundant red and yellow siltstone that may be cavings.
- 3760 3780 Limestone, tan to light gray, dense to finely crystalline, abundant milky chert.
- 3780 3800 Limestone, gray, fairly dark, dense to crystalline, some showing fossil fragments, hackly fracture, some pink grammler limestone, abundant milky chert. Sample has much mercon shale may be cavings.
- 3800 3840 Limestone, some gray to tan and dense, some pink and granular abundant chart.
- 3840 3850 Limestone, medium gray, mostly dense, sub-lithographic, hard, locally styplitic, with abundant chart.
- 3850 3880 Limestone, medium gray to medium dark gray, sub-lithographic, hard, hackly, considerable tan to milky chart.
- 3880 3890 limestone, medium gray to madium dark gray, dense to micro-crystalline, hackly, hard, locally sparsely pyritic, trace tan to milky chert.
- 3890 3940 Limestone, ten to gray, dense to micro-crystalline, hard, abundant chart.

 \mathbf{C}

3940 - 3950 Limestone, tam to medium gray, dense, hard, often hackly, abundant tam to milky chert.

3950 - 3970 Limestone, mostly ten, some light gray, dense, hard, considerable chert.

3970 - 3980 Limestone, cress to white, dense to micro-crystalline, hard, some recrystallisation.

3980 - 3990 Limestone, tan to gray, dense to micro-crystalline, hard, hackly.

3990 - 4015 Limestone, tan to gray, dense to micro-crystalline, some with micro-yugs, probably low permeability, hard, hackly.

- 18 -

#4

BIT RECORD

						Foot-		Wt. o	1	
תו #	Malos	Size	Type	In	Cut	age	Hours	Bit	Remar	48
	CP	9-7/8	KM.	0	l ₁ 6	46	49	***	Surface	Nole
3	CP	'n'	EM	46	131	88	•	-	11	19
1 3 4 5	Reed	17-1/2	*****	Õ	13h 13h 16	134	-	-	Reaming	
, I	HTC	7-7/8	OFFIC	134	362	228	11-1/2	8		
4		# 170	W7R	362	386	24	7-1/2	8		
2	HTC	••	14 147	,7UA	500	- total	1-2/2	•		
	CP	R	EH3	386	482	96	9-1/2	8		
7	GP	e	EH3	182	523	hī	11-1/2	7		
0 0	OP	Ħ	KH3	523	579	56	9-1/2	7		
8 9		tŧ		26.3 270	212	21		8		
Ž	CP	n	EH3	579	590	11. 53	7 25	12		
0	CP	**	医肝门	590	643	7)	€ ⊅	16		
1	CP	et	EH)	643	789	1)46	19-1/4	15		
2	CP	#	EHO	789	1015	226	22-1/2	15		
2	CP CP	11	EH2	1015	1101	86	11-1/1	ĪŠ		
3 14 5	CD.	Ħ	BH3	1101	1173	72	14-1/4	15		
<u> </u>		19	BHT			720	17	10		
5	CP	•	suff	1173	1303	130	7-1	10		
.6	CP	R	EHL	1303	1397	94	15-1/2	10		
.7	CP	Ħ	EHL	1397	11,81	87	6	10	Hammer	Drill -
.8	CP	11	EH3	1481	1690	209	17	10		
	GP	D	EH3	1690	1990	360	19	10		
.9 !0	CP	19	EH3	1990	2275	385	25-1/2	10		
	CP	Ħ	2013	2275	2316	41	2-1/2	8		
21		ti	eh3 Yiiw		26 9 3	377 377	17-1/2	10	Hammer	De433
22	Reed	#		2316	キロブン	377	11	12	13 GERTHALT	ti ti
?3	HTC		Will	2593	2890	177	N A M	8	# #	#
574	HTC		WAL	2890	2978	88	8-1/2	0	# #	12
25	Read	S	AHA	2978	3083	105	8-1/2	8	77	**
26	CP	н	EH3	3083	3094	11,	11-1/2	10	Re-run	Bit No
27	HTC	Ħ	W7RJ	309L	3290	196	15	10		Drill (
58	Reed	Ħ	YVW	3290	3428	138	17-1/4	12	(1	#
	HTC	Ħ	#7ŖĴ	3428	3561	133	10	12	Ħ	\$
2 9		ti	EH3		3663	102	10-1/2	12	Ħ	8
30	CP	**	5"3	3561	روور	TOE	umil/2	14	-	~•
31	CP	#	EH3	3663	3741 3951	78	8-1/2	10	類	Ħ
31 32 33	CP	粒	Bil3	3741	3951	210	15-1/2	10	ri .	tt
33	Reed	14	THW	3951	4015	64	3-1/2	8	18	tt

THE PERSON NAMED IN THE PE

€ i

The Control of the State of the

SLOPE TESTS (EASTMAN)

(1

DEPTH	DEVIATION	DEPTH	DEVIATION
190	3/4	1893	1-3/4
290	3/1	1940	1-1/2
385	3/1	2020	8
1480	1-3/4	2125	2-1\fr
520	2	2180	2-3/4
548	1-3/k	2210	2-3/4
590	1-3/4	85/10	2-3/4
621	1-1/2	2316	2
6110	1-1/2	2380	2-1/4
670	1-1/2	21,35	2-3/4
700	1-1/4	2500	2-1/2
746	3/4	2560	2-3/4
765	1	2632	2-1\f
855		2719	5-7\/
963	1/4	2835	3 3 3
1070	1-3/4	2870	3
1117	1-3/4	2938	3 - 3/1
1135	2 2 40	299 5 3065	2-1/2
1165	2-1/2 2	3157	1-3/4
1195		3240	1-1\3
1272	1-3/l;	3340	1-3/4
1290 1324	2-1/4	31.1.6	1-3/4
1397	. 2	3446 3550	4
1417	1-3/4	3580	3-3/4
31.50	1-3/1	361.1	11/1
1559	1-1/2	3641 3682	4-3/4
1450 1552 1600	1-3/4	3713	4-3/4
1690	2	3997	6
1800	1-3/4		_
	,		

Tenn. Gus Trans Co # 1 USA-Schreiber. Pernit #114

OPERATIONAL SUMMARY

The #1 Schreiber Well was spudded on April 25, 1960. Well Completions, Inc., of Denver, Colorado, was Contractor. This company provided the rig as well as the compressors for the drilling of this well.

A No. 510 Joy, truck mounted rig, equipped to use either air or mud was employed. At the beginning of the hole, 2 Joy, $13-1/2 \times 7 \times 7$, Model WN 102, 800 cubic feet per minute compressors were used. A Joy, Model WNB 112, $1 \times 1 \times 7$ Booster was placed on the line on May 11, at a depth of 2316, in order to provide adequate air pressure to insure proper operation of the Mission Hammer Drill.

The first moisture encountered in the hole was at a depth of 2720-2730'. This was not serious, however, and after blowing hole for about an hour, dust drilling was resumed. Between 2730' and 3080', however, additional moisture was encountered, gradually decreasing the amount of dust return. Finally, at a depth of about 3070' dusting ceased. Upon pulling pipe at a depth of 3080', it was found that water had "balled-up" considerable mad on the pipe. In fact some difficulty was experienced in getting the pipe out of the hole. The amount of water encountered actually was negligible, but it was sufficient to be bothersome to straight air drilling. At this point it was decided to inject water and detergent. This cleaned the hole successfully and this process was continued for the remainder of the hole. Two to five barrels per hour of detergent charged water were injected into the air stream, and this proved to be adequate to keep the hole clean.

Some extremely hard drilling was encountered in the upper portion of the hole. The Kaibab Limestone was found to be very hard, with drilling time reaching as high as 70 minutes per foot. Due to this slow rate of penetration it was decided to try using the Mission Hammer Drill, a rotary pracussion tool actuated by compressed air. This tool was first run at a depth of 1397', but sufficient air pressure could not be maintained to operate the tool properly. It is believed, however, that even with sub-standard pressures, the tool increased the rate of penetration to The tool was not used further, however, until a booster could be placed on the line. By this time the hole was at a depth of 2316'. At this depth the booster was placed in operation and the Hammer Drill was again employed. Drilling rates were immediately increased by two to three times as compared to conventional air drilling. two or three trips in the hole the Hammer Drill experienced failures of the lock ring used to secure the choke in the tool. Mr. John Loggie. Mission Engineer, improvised, however, and this difficulty was overcome. The tool worked for the remainder of the hole completely trouble-free.

An cutatending example of the efficiency of the Hammer Drill was demonstrated at a depth of about 3100'. Upon encountering sufficient moisture in the hole to change to "mist drilling", it was deemed advisable to remove this tool from the string for one trip, or until the hole could be adequately cleaned up. The tool was removed from the string at a depth of 3083'. The next 11' required h-1/2 hours to drill. At a depth of 309h' a trip was made and the Hammer Drill was returned to the string. In the same formation the drilling time was from 12' to 15' per hour after the tool was placed back in operation.

Special "beefed-up" bits are necessary to use with this tool in order to withstand the added pressures provided by the precussion action on the bit.

The Mission Hammer Drill demonstrated an emazing ability to drill extremely hard formations at a good drilling rate. It is believed that had this tool been used from a depth of about 350' it would, in all probability, have saved several days drilling time, as well as several bits.

Although the air drilling proved to be completely successful at this location, it is true that moisture had been on some of the shale beds as long as they would stend it. These shales were "heaving" to such an extent that it was impossible to run legs below 1850'. Had the hole been continued below its present total depth, in all probability it would have been necessary to ream the hole and run a protective ossing string.

After reviewing this operation, it is the writer's opinion that the employment of air and the Hammer Drill saved many thousands of dollars in the drilling of this well.

Submitted by,

James W. Mance Consulting Geologist

April 1960 Denver, Colorado

- 22 -

CALLED STREET, STREET,

The state of the s

6

	(
•		<u> </u>
AP	PLICATION FOR PERMIT TO	DRILL, DEEPEN OR PLUG BACK
	APPLICATION TO DRILL	DEEPEN [] PLUG BACK []
NAME OF COMPANY OR OPER	RATOR	DATE
<u> Pennessee Gas Transm</u>	ission Company	April 20, 1950
Address	City	α 1 3 .
P. 0. Box 1714		
	DESCRIPTION OF	WELL AND LEASE Well number Elevation (ground)
Name of lease		Well number Elevation (ground) 5404 f GL
<u> JSA Art J. Schreiber</u> Well location	(give footage from section lines)	
1,900' FWL, 580' FSL		35 39N 13W (G&SR)
Field & reservoir (If wildcat, so	state)	County Mohave
Wildcat Distance, in miles, and direction	from nearest town or post office	Tiongre
35 miles south of St	. George, Utah	Language design to manner drilling
Nearest distance from proposed to property or lease line:	location	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:
	3300 (eet	No other wells fe
Proposed depth:	Rotary or cable tools	Approx. date work will start
Number of acres in lease:	I Rotary	May 1, 1960 Number of wells on lease, including this well.
		completed in or drilling to this reservoir:
2160	more Name	No other Wells
This Notice	tion to deepen or plug back, briefly descr expected new producing zone) of Intention to Drill has	ribe work to be done, giving present s a revised surface casing program and
No other wells Status of bond On file Remarks: (If this is an applicate producing zone and	tion to deepen or plug back, briefly descr expected new producing zone) of Intention to Drill has	ribe work to be done, giving present
No other wells Status of bond On file Remarks: (If this is an applical producing zone and This Notice supersedes * Fill in Proposed Casing P	tion to deepen or plug back, briefly descrenced new producing zone) of Intention to Drill hadour original Notice of Intention to Drill hadour original Notice of Intention of	ribe work to be done, giving present s a revised surface casing program and intention to Drill submitted March 18, 196
No other wells Status of bond On file Remarks: (If this is an applical producing zone and This Notice supersedes * Fill in Proposed Casing P	tion to deepen or plug back, briefly descrexpected new producing zone) of Intention to Drill has our original Notice of Intention to Drill has our original Notice of Intention original Notice of Intention of Intention of Intention of Intention of Intention Intention Intention (company)	that I am the. District. Production. Superintende
No other wells Status of bond On file Remarks: (If this is an applical producing zone and This Notice supersedes * Fill in Proposed Casing P CERTIFICATE: I, the undersity Tennessee. Gas. Transport was prepared under m	tion to deepen or plug back, briefly descrexpected new producing zone) of Intention to Drill has our original Notice of Intention to Drill has our original Notice of Intention of Intention to Drill has our original Notice of Intention or Intention of	that I am the. District Production Superintende and that I am authorized by said company to make this report; and that said therein are true, correct and complete to the best of my known to the production of the production of the correct and complete to the best of my known to the production of the
No other wells Status of bond On file Remarks: (If this is an applical producing zone and This Notice supersedes * Fill in Proposed Casing P	tion to deepen or plug back, briefly descrexpected new producing zone) of Intention to Drill has our original Notice of Intention to Drill has our original Notice of Intention original Notice of Intention of Intention of Intention of Intention of Intention Intention Intention (company)	that I am the. District. Production. Superintende
No other wells Status of bond On file Remarks: (If this is an applical producing zone and This Notice supersedes * Fill in Proposed Casing P CERTIFICATE: I, the undersity Tennessee. Gas. Transferort was prepared under m April 20, 1960 Date Permit Number:	tion to deepen or plug back, briefly descrexpected new producing zone) of Intention to Drill has our original Notice of Intention to our original Notice of Intention of Intention to Drill has our original Notice of Intention or original Notice of Intention of Inte	that I am the. District Production Superintende and that I am authorized by said company to make this report; and that said therein are true, correct and complete to the best of my known to the production of the production of the correct and complete to the best of my known to the production of the
No other wells Status of bond On file Remarks: (If this is an applical producing zone and This Notice supersedes * Fill in Proposed Casing P CERTIFICATE: I, the undersing report was prepared under meaning the supersedes April 20, 1960 Date Permit Number: Approval Date:	tion to deepen or plus back, briefly descrexpected new producing zone) of Intention to Drill has our original Notice of Intention to our original Notice of Intention our original Notice of Intention of Prince of Intention on other side gned, under the penalty of perjury, state to ismission. Company. (company), y supervision and direction and that the factors of the prince of the penalty of perjury is the factor of the penalty of perjury.	that I am the. District. Production. Superintender and that I am authorized by said company to make this report; and that satisfies therein are true, correct and complete to the best of my known of the said of the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said complete to the best of my known of the said com
No other wells Status of bond On file Remarks: (If this is an applical producing zone and This Notice supersedes * Fill in Proposed Casing P CERTIFICATE: I, the undersing report was prepared under meaning the supersedes April 20, 1960 Date Permit Number: Approved By:	tion to deepen or plus back, briefly descrexpected new producing zone) of Intention to Drill has our original Notice of Intention to our original Notice of Intention our original Notice of Intention of Prince of Intention on other side gned, under the penalty of perjury, state to ismission. Company. (company), y supervision and direction and that the factors of the prince of the penalty of perjury is the factor of the penalty of perjury.	that I am the District. Production. Superintende and that I am authorized by said company to make this report; and tracts stated therein are true, correct and complete to the best of my known of the state of the state of the best of my known of the state of the state of the best of my known of the state of the state of the best of my known of the state of the state of the best of my known of the state of the state of the best of my known of the state of the state of the best of my known of the state of t

The state of the s

O

Ġ

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	. Weight	Grade & Type	Тор	Bottom	Cementing Depths	Sacks Cement
13 3/8"	48	H-40	-o ¹³	100	100	100
4 1/2"	9.5	J-55	0	4000	4000	250
				·		!

Form No. P-1

producer images in a little which in the

《美罗斯·克里斯·克里斯斯·克里斯斯·

Harry Committee and Committee

~ ~~

	_(-{
APPLICAT	TION FOR PERMIT TO I	ORIII DEEDENI C	OR PILIG BACK
			G BACK
	PLICATION TO DRILLAS	DEELEY () LTO	DATE
NAME OF COMPANY OR OPERATOR			
<u>Tennessee Gas Transmi</u>	ssion Company Dur City	ango	Colorado State
P. O. Box 1714			
	DESCRIPTION OF V	VELL AND LEASE	
Name of lease		Well number	Elevation (ground)
USA Art J. Schreiber Well location	give footage from section lines)	1 Section-	5404 GI. -township—range or block & survey
1900' FWL, 580' FSL		35	39N, 13W (G&SR Meridian)
Field & reservoir (If wildcat, so state) Wildcat		County Mohave	
Distance, in miles, and direction from ne			
Approximately 35 mile Nearest distance from proposed location	s south of St. Georg	mi	sed location to nearest drilling, for well on the same lease:
to property or lease line:	2000 100		
Proposed depth:	3300 feet Rotary or cable tools		Pr Wells 1661 Approx. date work will start
4000'	Rotary	1	April 1, 1960
Number of acres in lease:		completed in or drill	lease, including this well, ing to this reservoir:
2160		No other	- Wells Address
If lease, purchased with one or more wells drilled, from whom purchased:	Name		Andreas
Remarks: (If this is an application to de producing zone and expected	On file sepen or plug back, briefly descriped producing zone)	be work to be done, gi	ving present
		tr (
·	•	:	•
• Fill in Proposed Casing Program on	other side		
		Distr	ist Duodustion Comt
			ict Production Supt
Tennessee. Gas. Transmiss report was prepared under my supervis	SION CO(company), a sion and direction and that the fa	ind that I am authorize cts stated therein are tr	d by sald company to make this report; and that this ue, correct and complete to the best of my knowledge.
March 18, 1960		Signature	Rowalker R. N. Walker
Permit Number: #114			TATE OF ARIZONA OIL & GAS
Approval Date Darch 2	7/1960	1 .	CONSERVATION COMMISSION cation to Drill, Deepen or Plug Back
Approved By:	he sure that you have given	Form No. P-1	File two copies
all information requested. Mence will thus be avoided.	luch unnecessary correspond-	Authorized by (Order No. 4-8-59 Effective April 6, 19 59
See Instruction on Reverse Si	de of Form	1	DICOUTE

The state of the s

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

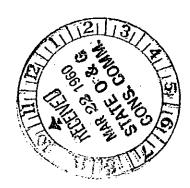
PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Тор	Bottom	Cementing Bepths	Sacks Cement
10 3/4"OD	32 . 75#/	ft. H-40	61	850 '	850¹	550
4 1/2"OD	9•5#/±	t. J- 55	01	4000°	40001	250
4 1/L VD)•/"/-			4000	4000	250

Form No. P-1

The second second

C



O

THE PARTY OF THE P

COMPANY TS						Lease No.				
Location 5801						COV. THI	KEST	LINB		
Being in SR 5	Y								and the second of the second s	
Sec. 35, T 391	и., н <u>13</u>	w., G	& SRM,	MCAYA	R CCai	TY, A	RIZONA			
Ground Elevatio	n 5404	ungr	aded			٠	_			
eg- enhanced	T		·· · · · · · · · · · · · · · · · · ·		<u>'</u>					
		· ‡				<u></u>			NOTE:	
	!		• -					· · · · · · · · · · · · · · · · · · ·	Section 35, T39N, R13W is only a part of total lease.	
· · · · · · · · · · · · · · · · · · ·	ン		1			 			деавс.	
			· · ·	Sec.	35				•	
		į.				† 1		i		
			-	- 		+		T	N	
		 		 		· 				
	=	1900	7	<u>.</u>		+ <u>-</u> -		- 		
	<u></u>	, 1 ~ ~		APPX (l Us <i>Ģ</i>	SW	<u> </u>			
		:	Scule	4 inches	s equals	I mile			19 60	

This is to certify that the above plut was prepared from field notes of actual surveys made by

CONTRACTOR OF THE PROPERTY OF THE PARTY OF T

Registered Professional Engineer and Land Surveyor. Robert H. Ernst

New Yex. Reg. No. 2463

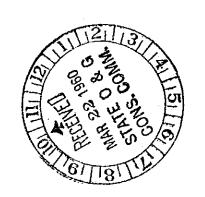
me or under my supervision and that the same are true and correct to the best of my

knowledge and belief.

Emmington, New Mexico

Seal:

ð



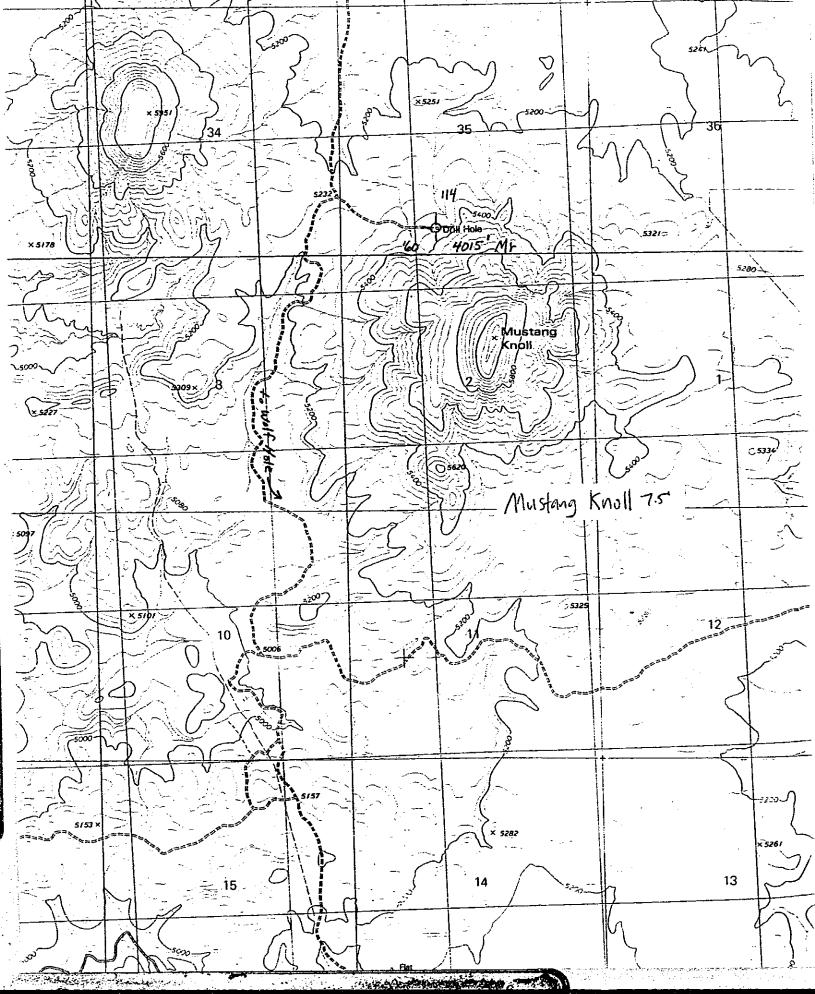
The second of the second

CONTRACTOR OF THE PARTY.

6 1

(WOLF HOLE MIN WEST) 26 27

6



530 000 FEET

Ð

. . .

BLANKET BOND

KNOW ALL MEN BY THESE PRESENTS,

That we: TENNESSEE GAS TRANSMISSION COM	MPANY, a Delaware corporation
of the County of: Harris	in the State of: Texas
as Principal, andNATIONAL SURETY CORPO	RATION
of New York, New York authorized to do business within	in the State of Arizona,
indicated, lawful money of the Unite	d unto the State of Arizona in the penal sum as ed States, for which payment, well and truly to be of us, and each of our heirs, executors, administrantly and severally, firmly by these presents.
The condition of this obligation is the drill a well or wells for oil, gas or the condition and situated within the S	nat whereas the above bounden principal proposes to stratigraphic purposes in and upon thextollowing tate, Knywyk and
(May be used as blanke cover any and all wells drilled of	blanket bond in lieu of individual bonds to blond of for Single well to be drilled by Principal within the State of
Arizona DATE	(3-7-6)
27-516, providing for the proper defiling with the Oil & Gas Conservated Said Commission, in the event said quantities, or cease to produce oil is void; otherwise, the same shall	ally with reference to the requirements of A.R.S. rilling, casing and plugging of said well or wells, and tion Commission all notices and records required by well or wells do not produce oil or gas in commercial or gas in commercial quantities, then this obligation be and remain in full force and effect.
Penal sum of Ten Thousand and no/	
Witness our hands and seals, this_	10 day of March, A. D. 1960 TENNESSEE GAS TRANSMISSION COMPANY,
ATTEST: Messart Secretary	Ry. Vice Prespent of Tennessee Cas and On Compeny, a division of Tennessee Cas Transmission Company
Witness our hands and seals, this	10th day of March, 1960
somtenegers at Phacey, less	NATIONAL SURETY CORPORATION
march 18, 1960 Jahr B. Philan	N. Carothers - Atty-in-fact Curety
officers, with the seal of the corporation	the bond should be executed by its duly authorized oration affixed. When principal or surety executes ney or other evidence of authority must accompany
ApprovedDate	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

P-2

Ģ

Charles and Charle

0

NATIONAL SURETY CORPORATION New York

GENERAL POWER OF ATTORNEY
KNOW ALL MEN BY THESE PRESENTS, that NATIONAL SURETY CORPORATION, a Corporation duly
organized and existing under the laws of the State of New York, and having its principal office in the City of New York, N. Y., hath made, constituted and appointed, and does by these presents make, constitute and N. CAROTHERS
Appoint.
of HOUSTON and State of TEXAS
its true and lawful Attorney(s)-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver Any and all bonds, recognizances, contracts, agreements of indemnity and other conditional or obligatory undertakings;
heraunder shall not exceed FIVE HUNDRED THOUSAND (\$500,000.00)DOLLARS
and to bind the Corporation thereby as fully and to the same extent as if such bonds were signed by the President, sealed with the corporate seal of the Corporation and duly attested by its Secretary, hereby ratifying and confirming all that the said Attorney(s)-in-Fact may do in the premises. Said appointment is made under and by authority of the following provisions of the By-laws of NATIONAL SURETY CORPORATION:
"ARTICLE XII. RESIDENT OFFICERS AND ATTORNEYS-IN-FACT. "Section I.—The Chairman, President or any Vice-President may from time to time appoint Resident Vice-Presidents, Resident Assistan Secretaries and Attorneys-in-Fact to represent and act for and on behalf of the corporation and the Chairman, President, or any Vice-President, the Board of Directors or the Executive Committee may at any time suspend or revoke the powers and authority given to any sucl Resident Vice-President, Resident Assistant Secretary and Attorney-in-Fact, and also remove them from office. (Adopted April 29, 1933)
Applies to all powers of attorney executed prior to May 25, 1933). "Section 1.—The President, Executive Vice-President or any Vice-President may, from time to time, appoint Resident Vice-President Resident Assistant Secretaries and Attorneys-in-Fact to represent and act for and on behalf of the Corporation and the President, Executive Vice-President or any Vice-President, the Board of Directors or the Executive and Finance Committee may at any time suspend or revok the powers and authority given to any such Resident Vice-President, Resident Assistant Secretary or Attorney-in-Fact, and also remove any of them from office. (As amended May 25, 1933. Applies to all powers of altorney executed prior to April 27, 1943).
"Section 1.—Appointment.—The President Executive Vice President or any Vice President may, from time to time, appoint Resident Vice Presidents, Resident Assistant Secretaries and Attorneys-in-Fact to represent and act for and on behalf of the Corporation. (As amende April 27, 1943. Applies to all powers of attorney executed on or after that date). "Section 4.—Attorneys-in-Fact.—Attorneys-in-Fact may be given full power and authority to execute, acknowledge and deliver for an
in the name and on behalf of the Corporation any and all bonds, recognizances, contracts of indemnity and other conditional or obligator undertakings, and any such instrument executed by any such Attorney-in-Fact shall be as binding upon the Corporation as if signed by the Chairman or the President and sealed and attested by the Secretary. (Adopted April 29, 1933. Applies to all powers of attorney execute prior to May 25, 1933).
"Section 4.—Attorneys-in-Fact.—Attorneys-in-Fact may be given full power and authority to execute, acknowledge and deliver for an in the name and on behalf of the Corporation any and all bands, recognizances, contracts of indemnity and other conditional or obligator undertakings, and any such instrument so executed by any such Attorney-in-Fact shalf be as binding upon the Corporation as if signed be the President and sealed and attested by the Secretary. (As amended May 25, 1933. Applies to all powers of attorney executed prior (July 30, 1935).
"Section 4.—Alterneys-in-Fact.—Atterneys-in-Fact may be given full power and authority, for and in the name and on behalf of the corporation, to execute acknowledge and deliver, any and all bonds, recognizances, contracts of indemnity and other conditional or obligatory undertakings, and any and all notices and documents cancelling or terminating the corporation's liability thereunder, and any such instrument so executed by any such Attorney-in-Fact shall be as binding upon the corporation as if signed by the President and sealed an attested by the Secretary. (As amended July 30, 1935. Applies to all powers of attorney executed prior to April 27, 1943). "Section 4.—Attorneys-in-Fact.—Attorneys-in-Fact may the given full powers and authority, for and in the name and on behalf of the Corporation, to execute, acknowledge and deliver, any and hill bonds, recognizances, contracts, agreements of indemnity and other conditional or obligatory undertakings, and any and all indices and declinents concelling or terminating the Corporation's liability thereunds and any such instruments are executed by any such instruments are executed by any such instruments are executed by the Secretary (As amended April) 27, 1943, Applies, to all powers of attorney executed prior to April 28, 1955.
"Section 4.—Attorneys-in-Fact. Attorneys-in-Fact may be given full power-and authority, for and in the name and on behalf the Corporation, to execute acknowledge and deliver, and, all bends, recognizances, contracts, agreements of indemnity and other codditional or obligatory undertakings, and any abd-all consents and releases incident thereto, and any and all notices and documents canceling or terminating the Corporation's liability thereunder, and any such instrument so executed by such Attorney-in-Fact shall be as bindit upon the Corporation as it signed by the President and sealed and attested by the Segnatury. (As amended April 28, 1953. Applies to a powers of attorney executed on or after-that-date.)
"Section 7.—Attorneys-in-Fact.—Attorneys-in-Fact are hereby authorized to verify any allidavit required to be attached to bonds, reconizances, contracts of indemnity, or other conditional or obligatory undertakings, and they are also authorized and empowered to certify a copy of the By-laws of the Corporation or any Article or Section thereof. (Adopted April 29, 1933. Applies to all powers of attorney excuted prior to May 25, 1933).
"Section 7.—Attorneys-in-Fact.—Attorneys-in-Fact are hereby authorized to verify any affidavit required to be attached to bonds, reconizances, contracts of indemnity, or other conditional or obligatory undertakings, and they are also authorized and empowered to certify copies of the By-laws of the corporation or any Article or Section thereof. (As amended May 25, 1933. Applies to all powers of attorney executed prior to April 27, 1943).
"Section 7.—Attorneys-in-Fact—Verifications.—Attorneys-in-Fact are hereby authorized to verify any affidavit required to be attached bonds, recognizances, contracts, agreements of indemnity, or other conditional or obligatory undertakings, and they are also authorized an empowered to certify to copies of the By-laws of the Corporation or any Article or Section thereof. (As amended April 27, 1943. Appli to all powers of attorney executed prior to June 27, 1944).
"Section 7.—Attorneys-in-Fact—Verifications—Certifications.—Attorneys-in-Fact are hereby authorized to verify, by affidavit or otherwise the authority to execute bonds, recognizances, contracts, agreements of indempity, and other conditional or obligatory undertakings; and certify. by affidavit or otherwise, as to the inspection or examination of assets of the estates, where the fiduciary responsible for su assets is bonded by the Corporation: and they are also authorized and empowered to certify to copies of the Ry-laws of the Corporation any Article or Section thereof. (As amended June 27, 1944. Applies to all powers of attorney executed on or after that date). "ARTICLE VIII. APPOINTMENT AND AUTHORITY OF RESIDENT ASSISTANT SECRETARIES, AND ATTORNEYS-IN-FACT, AND AGENT TO ACCEPT LEGAL PROCESS AND MAKE APPEARANCES.
Section 30. Appointment. The President, any Vice President, or any other person authorized by the Board of Directors, the Chairm of the Board of Directors, the President or any Vice President, may, from time to time, appoint Resident Assistant Secretaries and Attorney in-Fact to represent and act for and on behalf of the Corporation and Agents to accept legal process and make appearances for and behalf of the Corporation. (Adopted October 25, 1955. Applies to all Powers of Attorney executed on and after that date.)
Section 31. Authority. The authority of such Resident Assistant Secretaries, Attorneys-in-Fact, and Agents shall be as prescribed the instrument evidencing their appointment, and any such appointment and all authority granted thereby may be revoked at any tip by the Board of Directors or by any person empowered to make such appointment. (Adopted October 25, 1955. Applies to all Powers Attorney executed on and after that date.)
IN WITNESS WHEREOF, NATIONAL SURETY CORPORATION has caused these presents to signed by its Vice President, attested by its Assistant Secretary, and its corporate seal to be hereto affixed this 10th A.D., 19
NATIONAL SURETY CORPORATION
DATE DE LA
(Seal) Vice President
ATTEST. A. N. MacDOUGALL
ATTEST: A. N. MacDOUGALL f. 2014 Rev. 1/56 Assistant Secretary

The state of the s

• .	1	-		• •
STATE OF NEW YORK,)			
COUNTY OF NEW YORK,	ss. :			
On this 10th	day of	June		A.D., 19_ <u>55</u>
On this		S. G. DRAKE		, to me known,
before me personally came_ who, being by me duly swo	37.3 3		the City of New	
who, being by me duly swo President of NATIONAL SI above instrument; that he kn such corporate seal; that it wo	RETY CORPORA	TION, the Corporation a east Corporation: that the	seal affixed to	the said instrument is
his name thereto by like ord	er. And said	S. G. DRAKE		
		A W M-aDOU	GALL	and knows him
further said that he is acquair to be an Assistant Secretary	of said Corpora			-
	_		IZABETH C. K	_
(Notarial seal affixed)				Notary Public
STATE OF TEXAS COUNTY OF DALLAS	} ss.:			
	Rosid	ent Assistant Secretary and	Attorney-in-Fact	of NATIONAL SURETY
CORPORATION, do hereby (including applicable By-law force and effect.	ertify that the ab	ove and foregoing is a true	and correct copy	of a Power of Attorney
			ad the eart of se	aid Corporation, at the
IN WITNESS WHEREO	, I have hereunt	o set my hand and affixe		
City of Dallas, Texas	his_ 10th	day/	March	A.D., 19 <u>60</u> .
		4/14	turnes	<u> </u>
		Resident As	sistant Secretary	and Attorney-in-Fact
			ν	
		50		
	>	P		13
	山 マ、			
	<u> </u>	RIN NG P		
CH 33 8	スラジ			
A B C C C C C C C C C C C C C C C C C C		A BE	Å	
NVISIBLE ARMOR	マカ	FUND IDEA FUND IDEA GENERAL FOF ATT	Ē	
N N N N N N N N N N N N N N N N N N N	Z			
A	으쏫/	V L B B B B B B B B B B B B B B B B B B		
		ber of The FUND Insurance Con GENERAL POWER OF ATTORNEY		
	NATIONAL SURETY CORPORATION	A Member of The FUND Insurance Companies GENERAL POWER OF ATTORNEY		
		A		ON DATE.

j K

er 🙉 🛊

March 7, 1962

Mr. Robert T. McCarthy, Assistant Manager Fire and Casualty Department Tenneco Oil Company P. O. Box 18 Houston, Texas

Re: Permit Bond No. 5049680 - \$10,000 Blanket Drilling Bond to the State of Arizona

Dear Mr. McCarthy:

We owe you an apology. Your letter of February 26, 1962 was misplaced and our answer delayed.

You have our authorization to cancel your above designated bond.

Our wish for your company is success. We appreciate your cooperation and sincerely hope your exploration efforts will return you to Arizona soon.

Yours very truly,

D. A. Jerome Executive Secretary

119

CANADA PROPERTY AND A STATE OF THE PARTY OF

TENNECO

TENNECO OIL COMPANY · P. O. BOX 18 · TENNESSEE BUILDING · CAPITOL 3-4841 · HOUSTON, TEXAS

February 26, 1962

Oil and Gas Conservation Commission State of Arizona 3500 North Central Suite 312 Phoenix, Arizona

Re: Permit Bond No. 5049680 - \$10,000 Blanket Drilling Bond to the State of Arizona

Dear Mr. Gerome:

Please be advised that we wish to cancel the above captioned bond as of March 10, 1962, as we are no longer doing any drilling in the state of Arizona.

May we please have your authorization to cancel this bond.

Robert T. McCarthy Assistant Manager

Fire & Casualty Department

RTM: JDB: oli

114

THE PROPERTY OF THE PARTY OF TH

2.2

TENNESSEE GAS TRANSMISSION COMPANY P. D. BOX 1714 DURANGO, COLORADO

PLEASE ADDRESS YOUR REPLY TO ATTENTION OF: June 15, 1960

R. N. Walker

State of Arizona Oil and Gas Conservation Commission 3500 North Central - Suite 312 Phoenix, Arizona

Gentlemen:

Subject: Tennessee Gas Transmission Company

USA Art J. Schreiber Well No. 1

Section 35, T39N, R13W, Mohave County,

Arizona

Enclosed are three copies each of the Gamma Ray and

Induction Logs on the subject well.

Yours very truly,

TENNESSEE GAS TRANSMISSION COMPANY

District Petroleum Engineer

JHW:ljr

Enclosures

June 6, 1960

Mr. Paul Messinger Exploration Manager Davis Oil Company 1020 Midland Savings Building Denver 2, Colorado

Dear Mr. Messinger:

We have this date received the copies of Induction Log and Gamma Ray Log and the Geological Report on this well.

We have been in contact with Tennessee Gas and it is their desire this information be kept tight for 60 days, or until June 27th.

We thank you very much for the information and sincerely hope you will continue to consider our State in your exploration program.

Yours very truly,

W. F. Maule Petro. Engr.

WFH:mb

G.

فأنقاده بالراران

Committee of the same of the s

DAVIS OIL COMPANY

OIL PRODUCERS

1020 MIDLAND SAVINGS BLDG. • DENVER 2, COLORADO • Alpine 5-4661

NEW YORK, NEW YORK
DENVER, COLORADO
SALT LAKE CITY, UTAH

CASPER, WYOMING

ALBUQUERQUE, NEW MEXICO

June 3, 1960

RE: USA Art J. Schreiber No. 1 SE SW, Section 35-39N-13W Mojave County, Arizona

Arizona Oil and Gas Conservation Commission 3500 North Central Phoenix, Arizona

Gentlemen:

Enclosed herewith please find two (2) copies each of Induction Log and Gamma Ray Log on the Davis Oil Company U.S.A. Art J. Schreiber No. 1 Well.

We have also enclosed one (1) copy of the Geological Report on this well. The well has been drilled as a "tight hole", therefore we would appreciate it very much if you would not release any information relative to it.

Thank you very much for your cooperation in this matter, and if you have any further questions, please do not hesitate to contact our office.

Very truly yours,

DAVIS OIL COMPANY

Paul Messinger Exploration Manager

PM/vf Enclosures

C

THE MANAGEMENT AND THE

20

June 1, 1960

Mr. R. N. Walker Tennessee Gas Transmission Company P. O. Box 1714 Durango, Colorado

Dear Mr. Walker:

We return for your files approved copies of Forms P-15, P-15a, and P-7, relative to plugging the Schreiber #1, Mohave County, Arizona, We will release your bond on subject well as soon as I can inspect the location. We wish to advise you that the information we have on your well will be held confidential until 27 July 1960, at which time we request that you furnish this office with logs, samples and/or other geological information which you have available.

We sincerely hope your company continues to explore for oil and gas in our State.

Sincerely yours,

W. F. Maule Petroleum Engineer

WFM/ew Enclosures

{!

TENNESSEE GAS TRANSMISSION COMPANY
P. O. BOX 1714
DURANGO, COLORADO

PLEASE ADDRESS YOUR REPLY TO ATTENTION OF: R. N. Walker

1.00

May 27, 1960

State of Arizona Oil and Gas Conservation Commission 3500 North Central - Suite 312 Phoenix, Arizona

 ${\tt Gentlemen:}$

Subject: Tennessee Gas Transmission Company
USA Art J. Schreiber Well No. 1
Section 35, T39N, R13W, Mohave County,
Arizona

Attached are the original and two copies of the following documents pertaining to the subject well.

1. Plugging Record

2. Well Completion Report and Well Log

3. Application to Abandon and Plug

We request that all geological data contained on these reports be held confidential for a period of 60 days.

Yours very truly,

TENNESSEE GAS TRANSMISSION COMPANY

R. N. Walker

District Production Superintendent

WEC/ah

Attachments

May 25, 1960

Tennessee Gas Transmission Company Box 1714 Durango, Colorado

Attention: Production Department

Gentlemen:

In reference to my telephone conversation with J. J. Nance, I am enclosing the necessary forms to report completion of your Schriber #1 Well, Mohave County, Arizona. Please sign these in triplicate.

Such logs, maps or other geological data that you file with this office may be held confidential for a period of six months. We ask that you set a release date on this information.

We sincerely hope that you will continue to consider our State for future exploratory work.

Sincerely,

W. F. Maule Petroleum Engineer

WFM/ew Enclosures

A STATE OF THE PARTY OF THE PAR

:

TENNESSEE GAS TRANSMISSION COMPANY
P. O. BOX 1714

DURANGO, COLORADO

PLEASE ADDRESS YOUR REFLY TO ATTENTION OF:

April 20, 1960

State of Arizona Oil & Gas Conservation Commission 3500 N. Central, Suite 312 Phoenix, Arizona

Gentlemen:

Subject: Tennessee Gas Transmission Company USA Art J. Schreiber Well #1, 1900' FWL, 580' FWL, Section 35, T39N, R13W, G&SR Meridian, Mohave County

Attached are the original and two copies of Application for Permit to Drill subject well. This application supersedes application submitted March 18, 1960.

Yours very truly,

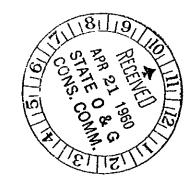
TENNESSEE GAS TRANSMISSION COMPANY

R. N. Walker

District Production Superintendent

WEC/ah

Attachments



THE PARTY NAMED OF THE PARTY NAM

March 22, 1960

Tennessee Gas Transmission Co. P.O. Box 1714 Durango, Colorado

> RE: Schreiber Well # 1 Mohave County Sec. 35 T.39N., R.13W. Application for Permit to Drill Deepen or Plug Back.

Gentlemen:

Enclosed herewith, is your receipt for Drilling Permit No. 114, in the amount of \$25.00, dated March 22, 1960, and your approved copy of the Application for Permit to Drill, Deepen or Plug Back.

Please submit ALL FORMS to this office in triplicate.

Yours very truly,

W. F. Maule, Petroleum Engineer

WFM:gg Encl:

///4

CARD DESCRIPTION OF THE PARTY O

TENNESSEE GAS TRANSMISSION COMPANY
P. O. BOX 1714

DURANGO, COLORADO

March 18, 1960

PLEASE ADDRESS YOUR REPLY TO ATTENTION OF:

R. N. Walker

#114 3/22/60

State of Arizona Oil & Gas Conservation Commission 3500 N. Central, Suite 312 Phoenix, Arizona

Gentlemen:

Subject: Tennessee Gas Transmission co.
USA Art J. Schreiber Well #1,
1900' FWL, 580' FSL, Section 35,
T39N, R13W, G&SR Meridian,
Mohave County

Attached are the original and one copy of Application for permit to Drill subject well. Attached to each copy of the Application is a location plat.

Also attached is a check in the amount of \$25.00 for a Permit to Drill and a Tennessee Gas Transmission Company Petty Cash Voucher. Please sign this voucher indicating that you have received payment and return it with the Permit.

If you have any questions concerning this Application or if you ever have any questions or comments concerning our operations in the State of Arizona please feel free to contact us at the above address or call us collect at CHerry 7-5494, Durango, Colorado.

Yours very truly, TENNESSEE GAS TRANSMISSION COMPANY

Wayne E. Cox District Office Supervisor

Attachments

WEC/ah

CONS. COMM. 221

1/4

THE PERSON NAMED IN THE PE

INSURANCE COMPANIES

FIREMAN'S FUND INSURANCE COM
9 LUHRS

Phoenix Office

FIREMAN'S FUND INSURANCE COMPANY . HOME FIRE & MARINE INSURANCE COMPANY . NATIONAL SURETY CORPORATION
9 LUHRS BUILDING ARCADE . PHOENIX, ARIZONA . ALpine 8-4585

March 18, 1960

Oil and Gas Conservation Commission State of Arizona 3500 North Central Avenue Phoenix, Arizona

Re: Tennessee Gas Transmission Company Bond No. 5049680

Gentlemen:

We are attaching the captioned Blanket Bond, which has been property executed and countersigned for the State of Arizona.

Kindly file in the usual manner.

Thank you.

Very truly yours,

JOHN B. PHELAN State Agent

JBP:wb

CC: Houston Office



114

The state of the s

The state of the s

~ ~

TENNESSEE GAS AND OIL COMPANY S

DIVISION OF TENNESSEE GAS TRANSMISSION COMPANY



P. O. BOX 2511 TENNESSEE BUILDING CAPITOL 3-4841 HOUSTON, TEXAS

March 11, 1960

Mrs. N. Carothers The Fund Insurance Companies 3400 Montrose Boulevard Houston, Texas

Re: Blanket Drilling Bond Arizona

Dear Mrs. Carothers:

Attached is a Blanket Brilling Bond for The State of Arizona which has been properly executed by Temmessee Cas Transmission Company. Flease execute the bond for Mational Surety, have it countersigned by an Arizona resident agent, and then filed with:

Oll and Gas Conservation Commission State of Arizona 3500 North Central Suite 312 Phosnix, Arizona Attention: Mr. D. A. Geroma

Please furnish this office with copies of all latters of transmittal and use Julius Levi and Company as agents.

Very truly yours,

Jerry Peaks

Assistant Hanager Fire & Casualty Department

JP:kcp Attacksent

eet Mr. John Hudsan

Mr. D. A. Gerome

and the second second second second

(Contraction of the Contraction of the Contraction

C.CANTED

TENNESSEE GAS TRANSMISSION COMPANY P. O. BOX 2511 . TENNESSEE BUILDING . CAPITOL 3-4841 . HOUSTON, TEXAS



March 11, 1960

Oil and Gas Conservation Commission State of Arizona 3500 N. Central - Suite 312 Phoenix, Arizona

Attention: Mr. D. A. Jerome, Executive Secretary

Re: Blanket Drilling Bond

Gentlemen:

Pursuant to instructions in your letter of March 8, 1960 we are enclosing herewith Organization Report properly completed and executed by M. H. Covey, Assistant Secretary of this company.

A Blanket Bond with the company, as Principal, and National Surety Corporation, as Surety, has been completed and forwarded to the Surety's Phoenix office for countersignature with instructions to deliver the original to you as soon as same has been completed. This Bond was executed on behalf of the company by J. Spencer Collins, Vice President of Tennessee Gas and Oil Company, a division of Tennessee Gas Transmission Company and A. Alverson, as Assistant Secretary of Tennessee Gas Transmission Company. We are enclosing a certified copy of certain Resolutions adopted by this company on October 30, 1958, as well as a certificate of Incumbency authorizing Mr. Collins and Miss Alverson to execute instruments on behalf of this company.

The Application for Permit to Drill, together with the \$25.00 fee for same, will be forwarded to you by our Denver office.

Yours very truly,

TENNESSEE GAS TRANSMISSION COMPANY

By Sohn K. Sudma Records and Rental Section

JRH; jm

Encls.

ec: Mr. J. D. Moon

IJ

THE PERSON NAMED IN COLUMN TWO

77